

NOVEMBER/DECEMBER 2023

**23UEMB12 — BASIC AND CLINICAL  
BIOCHEMISTRY**

Time : Three hours

Maximum : 75 marks



**SECTION A — (10 × 2 = 20 marks)**

Answer ALL questions.

1. What is Biomolecules?
2. Define – Monosaccharide.
3. Draw amino acid general structure.
4. Define – Fibrous proteins.
5. Name two disorders of carbohydrate metabolism.
6. What is meant by hypercholesterolemia?
7. What are the conditions of tyrosinemia?
8. Name two disorders of amino acid metabolism.
9. What is meant by diagnostic enzymology?
10. Give two examples of renal function test.



SECTION B — ( $5 \times 5 = 25$  marks)

Answer ALL questions.

11. (a) Give an account on oligosaccharides.

Or

- (b) Write an account on general properties and functions of lipids

12. (a) Explain in detail classification of amino acids.

Or

- (b) Write a brief note on Biological significance of Proteins.

13. (a) Write an account on conditions and symptoms of hypoglycaemia.

Or

- (b) Give an account on Causes and risk factors of hypercholesterolemia.

14. (a) Explain in detail about diagnosis and treatment of alkaptonuria.

Or

- (b) Discuss the conditions of phenylketonuria.

15. (a) Write down the clinical significance of aspartate amino transferase.

Or

- (b) What does it mean alanine transaminase (ALT) is high?

SECTION C — ( $3 \times 10 = 30$  marks)

Answer any THREE questions.

16. Explain in detail about LDL and H DL cholesterol.

17. Write in detail about properties, functions and classification of protein.

18. Give an detailed account on risk factors and symptoms of Diabetes mellitus.

19. Write an elaborate note on types of Tyrosinemia.

20. Explain in detail on renal and hepatic functions test.